

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (previously presented) An assembly comprising:

 a display device provided with a pattern of pixels driven by a control circuit, and

 an illumination system for illuminating the display device,

 said illumination system comprising a light-emitting panel and at least one light source, said light source being associated with the light-emitting panel, the light-emitting panel capable of providing light to the display device,

wherein:

 the light source comprises at least three sets of light-emitting diodes, wherein each set of light-emitting diodes has a different light-emitting wavelength, and

 the control circuit also drives luminous fluxes of the light-emitting diodes in dependence upon an image to be displayed by the display device.

2. (previously presented) An assembly as claimed in claim 1, wherein the control circuit varies an intensity of light emitted by each set of the light-emitting diodes in response to an illumination level of the image to be displayed by the display device.

3. (previously presented) An assembly as claimed in claim 1, wherein the intensity of the light emitted by each set of the light-emitting diodes can be adjusted on a frame-to-frame basis.

4. (previously presented) An assembly as claimed in claim 1, wherein the intensity of the light emitted by each set of the light-emitting diodes can be adjusted for each color on a frame-to-frame basis.

5. (previously presented) An assembly as claimed in claim 1, wherein the light source comprises at least four sets of light-emitting diodes, wherein each set of light-emitting diodes has a different light-emission wavelength.

6. (previously presented) An assembly as claimed in claim 1, wherein each diode in each set of the light-emitting diodes has a luminous flux of at least five lumens (5 lm).

7. (previously presented) An assembly as claimed in claim 6, wherein each set of the light-emitting diodes is mounted on a printed circuit board.

8. (previously presented) A display device for use with an illumination system, the illumination system comprising a light-emitting panel and at least one light source, the light source being associated with the light-emitting panel and comprising at least three sets of light-emitting diodes, each set of light-emitting diodes having a different light-emission wavelength, the display device comprising:

a pattern of pixels capable of receiving light from the light-emitting panel in the illumination system; and

a control circuit operable to drive the pixels, the control circuit also operable to drive luminous fluxes of the light-emitting diodes in dependence upon an image to be

displayed by the display device.

9. (previously presented) An illumination system for use with a display device, the display device provided with a pattern of pixels driven by a control circuit, the illumination system for illuminating the display device and comprising:

a light-emitting panel; and

at least one light source associated with the light-emitting panel;

wherein the light source comprises at least three sets of light-emitting diodes, each set of light-emitting diodes having a different light-emission wavelength, the light-emitting panel capable of providing light to the display device; and

wherein the control circuit is operable to drive luminous fluxes of the light-emitting diodes in dependence upon an image to be displayed by the display device.

10. (previously presented) An assembly as claimed in claim 1, wherein a first set of light-emitting diodes has a red light-emission wavelength, a second set of light-emitting diodes has a green light-emission wavelength, and a third set of light-emitting diodes has a blue light-emission wavelength.

11. (previously presented) An assembly as claimed in claim 2, wherein a first set of light-emitting diodes has a red light-emission wavelength, a second set of light-emitting diodes has a green light-emission wavelength, and a third set of light-emitting diodes has a blue light-emission wavelength.

12. (previously presented) An assembly as claimed in claim 2, wherein the intensity of light emitted by each set of the

light-emitting diodes can be adjusted on a frame-to-frame basis.

13. (previously presented) An assembly as claimed in claim 2, wherein the intensity of light emitted by each set of the light-emitting diodes can be adjusted for each color on a frame-to-frame basis.

14. (previously presented) An assembly as claimed in claim 5, wherein a first set of light-emitting diodes has a red light-emission wavelength, a second set of light-emitting diodes has a green light-emission wavelength, a third set of light-emitting diodes has a blue light-emission wavelength, and a fourth set of light-emitting diodes has an amber light-emission wavelength.

15. (previously presented) An assembly as claimed in claim 2, wherein each diode in each set of the light-emitting diodes has a luminous flux of at least five lumens (5 lm).

16. (previously presented) An assembly as claimed in claim 15, wherein each set of the light-emitting diodes is mounted on a printed circuit board.

17. (previously presented) A display device for use with an illumination system, the illumination system comprising a light-emitting panel and at least one light source, the light source being associated with the light-emitting panel and comprising at least three sets of light-emitting diodes, each set of light-emitting diodes having a different light-emission wavelength, the display device comprising:

a pattern of pixels capable of receiving light from the light-emitting panel of the illumination system; and

a control circuit operable to drive the pixels, the control circuit also operable to drive luminous fluxes of the light-emitting diodes in dependence upon an image to be displayed by the display device;

wherein the control circuit is operable to vary an intensity of light emitted by each set of the light-emitting diodes in response to an illumination level of the image to be displayed by the display device.

18. (previously presented) A display device as claimed in claim 17 wherein the light source comprises at least four sets of light-emitting diodes, wherein each set of light-emitting diodes has a different light-emission wavelength.

19. (previously presented) An illumination system for use with a display device, the display device provided with a pattern of pixels driven by a control circuit, the illumination system for illuminating the display device and comprising:

a light-emitting panel; and

at least one light source associated with the light-emitting panel;

wherein the light source comprises at least three sets of light-emitting diodes, each set of light-emitting diodes having a different light-emission wavelength, the light-emitting panel capable of providing light to the display device; and

wherein the control circuit is operable to drive luminous fluxes of the light-emitting diodes in dependence upon an image to be displayed by the display device; and

wherein the control circuit is further operable to vary

an intensity of light emitted by each set of the light-emitting diodes in response to an illumination level of the image to be displayed by the display device.

20. (previously presented) An illumination system as claimed in claim 19 wherein the light source comprises at least four sets of light-emitting diodes, wherein each set of light-emitting diodes has a different light-emission wavelengths.